

## Introduction

# Product Features

### Surface Unit

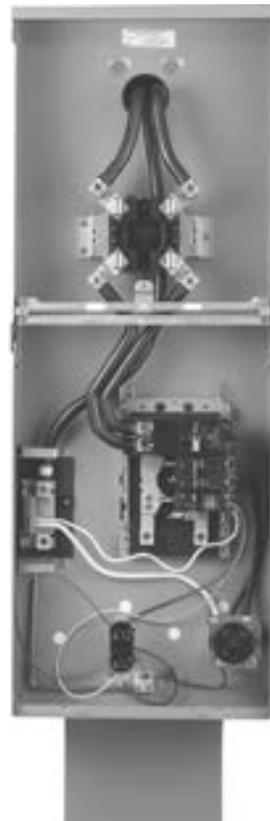
- NEMA 3R weatherproof construction
- G90 galvanized steel construction for superior corrosion resistance
- Durable polyester powder coat finish resists chipping and fading
- All components factory wired and assembled, reducing installation time
- Door removable for installation ease; stay open position for user convenience
- All terminals accept copper or aluminum wire for added installation flexibility
- Wide range of receptacle configurations
- Broad range of concentric knockouts to accommodate varied wiring needs
- All units with factory installed Cu/Al equipment ground lug
- Dead front construction prevents accidental contact with live parts
- Padlock provision to prevent unauthorized access
- Rolled edge door for cord protection
- Conforms to NEC and NEMA standards



U055C010

### Pedestal Unit

- NEMA 3R weatherproof construction
- G90 galvanized steel construction for superior corrosion resistance
- Durable polyester powder coat finish resists chipping and fading
- All components factory wired and assembled, reducing installation time
- Door removable for installation ease; stay open position for user convenience
- All terminals accept copper or aluminum wire for added installation flexibility
- Loop-feed terminals for maximum flexibility
- Single or double cabinet posts for fast and economical multiple site applications
- Barriers available for line, load and meter socket isolation
- Utility accepted meter sealing accommodations
- Pad mount posts available
- Dead front construction prevents accidental contact with live parts
- Padlock provision to prevent unauthorized access
- Rolled edges on all post wire entry points
- Conforms to NEC and NEMA standards



M255GP6

## Application Information

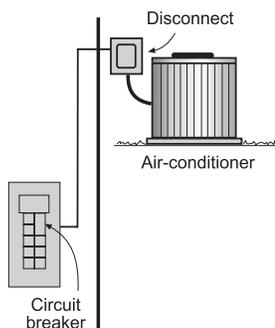
Article 440 of the National Electrical Code applies to electric motor-driven air conditioning and refrigerating equipment, and to the branch circuits and controllers for such equipment. It provides for the special considerations necessary for circuits supplying hermetic refrigerant motor-compressors and for any air conditioning and/or refrigerating equipment that is supplied from an individual branch circuit.

### The National Electric Code Requirements

Disconnecting means shall be located within sight from and readily accessible from the air-conditioning or refrigerating equipment. The disconnecting means shall be permitted to be installed on or within the air-conditioning or refrigerating equipment. The disconnecting means shall not be located on panels that are designed to allow access to the air-conditioning or refrigeration equipment or to obscure the equipment nameplates.

Additionally, the National Electric Code states that listed or labeled equipment shall be used or installed in accordance with any instructions included in the listing or labeling.

Thus, when an equipment's label or instruction specifies circuit breaker protection, Article 110.3(b) can be met with a branch circuit breaker in the load center while article 440.14 can most economically be met using a disconnect without overcurrent protection. When an equipment's label or instructions specifies fuse protection, Article 110.3(b) mandates that fuse(s) must be present in the branch circuit. Since most load centers are of the circuit breaker variety, fuses must be installed elsewhere in the branch circuit. The most economical installation involves combining the fuse protection and disconnecting functions into a single device to be installed per Article 440.14. See illustrations.



### Air Conditioner Disconnect Selection Guide

Existing Branch Circuit Protection	Sight Disconnect Selection
Fusible <sup>1</sup>	Non-Fusible or Fusible
Circuit Breaker	Fusible
HACR <sup>2</sup>	Non-Fusible or Fusible

<sup>1</sup> See Air Conditioner nameplate for correct selection.  
<sup>2</sup> HACR = Heating, air conditioning, refrigeration type circuit breaker.

Data subject to change without notice.

## Features and Benefits

### Flexibility

- 30-100 Amps
- 240 volts AC
- 1-phase or 3-phase fusible or non-fusible
- Horsepower rated
- 10kAIC
- Available with GFCI receptacle

### Rugged Durability

- NEMA 3R weatherproof enclosure
- Noryl<sup>®</sup> thermoplastic enclosure is corrosion resistant and extremely durable, giving long maintenance free service
- Metallic models are made of G90 galvanized steel for superior corrosion protection and have a durable polyester powder coat finish which resists chipping and fading

### User Safety

- Padlock provision on door helps prevent unauthorized access

### Installation Ease

- Three-piece construction that opens up mounting and wiring areas
- Terminals approved for 60°C and 75°C wire, accepts solid 14-8 copper, 12-8 aluminum or stranded 14-3 copper, 12-3 aluminum
- Numerous knockouts reduce installation time
- Straight-in, straight-out wiring saves time and money



U065P010

# Non-Metallic

## Fusible / Non-Fusible, 30 – 60 Amps, 120/240V

Fusible disconnects are available in 30 and 60 Amp models. Pullers are removable or reinstallable in the OFF position for user safety during equipment maintenance. The P065F UL listing includes the ability to field replace the 60 Amp puller with a 30 Amp puller (FR352) for installation flexibility. Listed for use as service entrance.

Non-fusible disconnect pullers are removable or reinstallable in the OFF position for user safety during equipment maintenance.

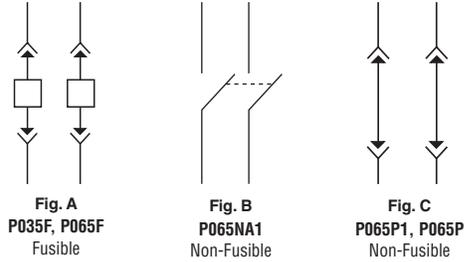


Fig.	Model Number		Amps	Horsepower Rating	Wire Range*	Cabinet Size	Unit Wt.	Std Pkg.	UL
	Fusible	Non-Fusible							
A	P035F	—	30	3	D	6 x 8	2	6	Y <sup>1</sup>
A	P065F	—	60	10		6 x 8			
B	—	P065NA1	60	10		5 x 7			
C	—	P065P1	60	10		5 x 7			
C	—	P065P	60	10		6 x 8			

<sup>1</sup> cULus approved.

\* Wire Range Table on page 36. See technical data on page 35 for available replacement parts.

# Metallic

## 1-phase / 3-phase, Fusible / Non-Fusible, 30 – 60 Amps, 120/240V or 240V

Fusible disconnects are available in 30 and 60 Amp models. Pullers are removable or reinstallable in the OFF position for user safety during equipment maintenance. Listed for use as service entrance.

Non-fusible disconnect pullers are removable or reinstallable in the OFF position for user safety during equipment maintenance.

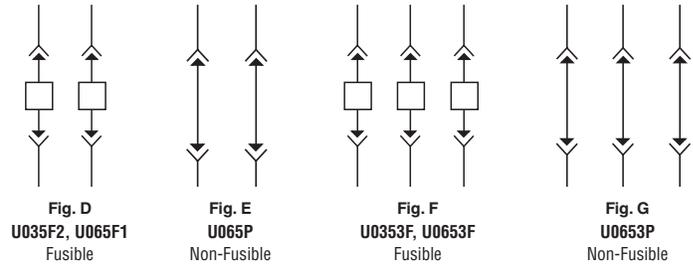


Fig.	Model Number		Amps	Horsepower Rating	Wire Range*	Cabinet Size	Unit Wt.	Std Pkg.	UL
	Fusible	Non-Fusible							
<b>Phase 1 – 120/240V</b>									
D	U035F2	—	30	3	D	5 x 7	2.5	6	Y <sup>1</sup>
D	U065F1	—	60	10		5 x 9	3.5		
E	—	U065P	60	10		5 x 7	3		
<b>Phase 3 – 240V</b>									
E	U0353F	—	30	3-7.5	D	6 x 14	8.5	4	Y <sup>1</sup>
F	U0653F	—	60	7.5-15					
G	—	U0653P	60	7.5-15					

<sup>1</sup> cULus approved.

\* Wire Range Table on page 36. See technical data on page 35 for available replacement parts.

### Key

□ = Accepts Class H fuses (fuses not included)

Data subject to change without notice.

# Technical Data

Model Number	Replacement Parts			Cabinet Size	Enclosure Style	Cabinet Dimensions (inches)				Knockout Figure <sup>1</sup>
	Complete Block and Puller	Fuse Block Only	Puller Only			Height (A)	Width (B)	Depth (C)	Depth (D)	
P035F	FR39	—	FR352	6 x 8	C	8	5-3/4	3-1/8	—	1
P065F	FR69	—	FH682	6 x 8	C	8	5-3/4	3-1/8	—	1
P065NA1	—	—	—	5 x 7	D	7-1/4	5	2-1/8	2-3/4	2
P065P	—	NF65	NF652	6 x 8	D	8	6	5-3/4	2-3/4	2
P065P1	—	NF65	NF652	5 x 7	D	7	5	2-1/8	2-3/4	2
U035F2	FR35R	—	FR352R	5 x 7	A	7	5	2-1/8	2-3/4	2
U0353F	265A6035G27	—	265A6035G27	6 x 14	B	14-3/8	7-1/4	5-3/16	—	3
U045F	FR35XFR67	—	FR352, FH682	9 x 17	B	17-3/8	9-3/4	5-3/16	—	4
U0653F	265A6036G69	—	265A6036G69	6 x 14	B	14-3/8	7-1/4	5-3/16	—	3
U0653P	265A6036G73	—	265A6036G73	6 x 14	B	14-3/8	7-1/4	5-3/16	—	3
U065F1	FR65	—	FH682	5 x 9	A	9	5	2-1/8	2-3/4	2
U065NA1	—	—	—	5 x 7	D	7	5	2-1/8	2-3/4	2
U065NA1010	—	—	—	5 x 7	D	7	5	3-5/8	5-3/16	2
U065P	—	NF65	NF652	5 x 7	A	7-1/4	5	2-1/8	2-3/4	2
U065P010	—	NF65	NF652	5 x 7	D	7	5	3-5/8	5-3/16	2
U065PC2	—	NF65	NF652	5 x 7	D	7	5	2-1/8	2-3/4	2
U220H	—	FH1	—	5 x 7	B	7-1/8	5-3/4	5-3/16	—	5
U261F	—	FH1	—	6 x 9	B	9-1/8	7-1/4	5-3/16	—	3
U610F	FR67X2	—	FH682	9 x 17	B	17-3/8	9-3/4	5-3/16	—	4

<sup>1</sup> Knockout Figures on page 36.

AC Disconnects

## Cabinet Dimensions

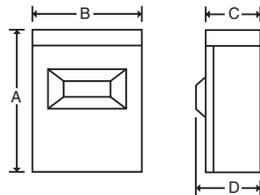


Fig. A

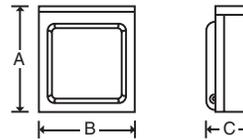


Fig. B

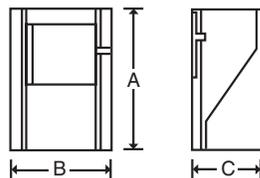


Fig. C

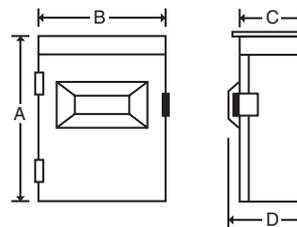


Fig. D

# Knockout Configurations

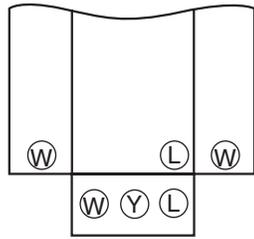


Fig. 1

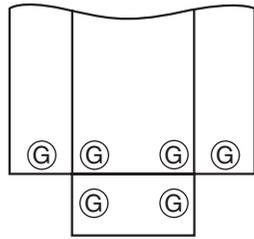


Fig. 2

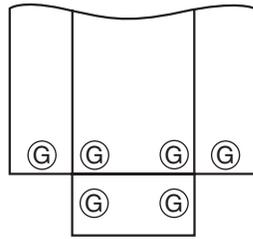


Fig. 3

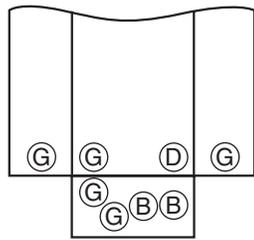


Fig. 4

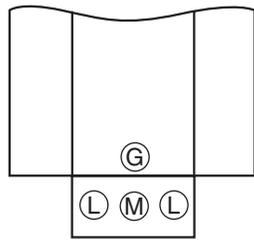


Fig. 5

### Knockout Key

- B = 1", 1-1/4", 1-1/2"
- D = 3/4", 1", 1-1/4"
- G = 1/2", 3/4", 1"
- L = 1/2", 3/4"
- M = 1/2", 3/4", 1", 1-1/4"
- W = 3/4", 1"
- Y = 1", 1-1/4"

\* Knockouts shown for size not for exact positions.

## Wire Range Tables

### D

Connector	Copper		Aluminum	
	Solid	Strand	Solid	Strand
Line	14-8	14-2	12-8	12-2
Load	14-8	14-2	12-8	12-2
Neutral	—	—	—	—
Equipment Ground	12-8	12-2	12-8	12-2

### E

Connector	Copper		Aluminum	
	Solid	Strand	Solid	Strand
Line	14-10	14-10	—	—
Load	14-10	14-10	—	—
Neutral	14-10	14-10	—	—
Equipment Ground	12-8	12-2	—	—

### Y

Connector	Copper		Aluminum	
	Solid	Strand	Solid	Strand
Line	14-8	14-1/0	12-8	12-1/0
Load	14-8	14-2	12-1/0	12-2
Neutral	14-8	14-1/0	12-8	12-1/0

### AR

Connector	Copper		Aluminum	
	Solid	Strand	Solid	Strand
Line	14-10	14-10	—	—
Load	14-10	14-10	—	—
Neutral	—	—	—	—
Equipment Ground	12-8	12-2	—	—